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Economics and Statistics Administration
BUREAU OF THE CENSUS

Manufacturers' Shipments, Inventories, and Orders

September 1997

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Note: All figures in text are in seasonally adjusted current dollars

Summary

New orders for manufactured goods in September increased \$1.4 billion or 0.4 percent to \$336.5 billion, the Department of Commerce, Bureau of the Census reported today. This follows a 1.2 percent August increase and is the fourth consecutive monthly increase. Excluding transportation, new orders increased 0.7 percent, following a 0.9 percent August increase. Year to date, new orders are 5.2 percent above the same period a year ago.

Shipments increased \$5.1 billion or 1.6 percent to \$335.3 billion, following a 0.8 percent August decrease. This is the third increase in the last four months. Year to date, shipments are 5.8 percent above the same period a year ago.

Unfilled orders, up four of the last five months, increased \$1.2 billion or 0.2 percent to \$528.2 billion, following a 0.9 percent August increase. The unfilled orders-to-shipments ratio was 2.79, down from 2.85 in August.

Inventories, up fourteen of the last fifteen months, increased \$0.7 billion or 0.2 percent to \$449.1 billion, following a 0.4 percent August increase. The inventories-to-shipments ratio was 1.34, down from 1.36 in August.

New Orders

New orders for manufactured durable goods in September increased \$0.2 billion or 0.1 percent to \$186.4 billion, revised from the previously published 0.6 percent decrease. This follows a 2.5 percent August increase and is the fourth consecutive monthly increase.

Primary metals had the largest increase, \$0.7 billion or 4.2 percent to \$16.6 billion, following a 2.1 percent August decrease. Industrial machinery and equipment, up three of the last four months, increased \$0.6 billion or 1.7 percent to \$35.3 billion. This follows a 1.1 percent August decrease. Fabricated metal products increased \$0.5 billion or 2.7 percent to \$19.7 billion. This follows a 0.4 percent August decline and is the first increase since June. Instruments and related products, up three of the last four months, increased \$0.5 billion or 3.6 percent to \$13.1 billion. This follows a 17.5 percent August decrease. Stone, clay, and glass products increased \$0.3 billion or 4.0 percent to \$7.7 billion, following a 2.3 percent August decline. Electronic and other electrical equipment, down three of the last four months, had the largest decrease, \$2.6 billion or 7.6 percent to \$31.5 billion, due to electronic components. This follows a 29.4 percent August increase. Transportation equipment, down two of the last three months, decreased \$0.5 billion or 1.2 percent to \$42.5 billion, due to declines in aircraft and parts and motor vehicles and parts. This follows a 3.1 percent August increase.

New orders for nondurable goods, up three of the last four months, increased \$1.2 billion or 0.8 percent to \$150.0 billion, following a 0.4 percent August decrease. Led by chemicals and allied products, all industries increased except petroleum and coal products and food and kindred products.

Shipments

Shipments of durable goods in September increased \$4.2 billion or 2.3 percent to \$185.3 billion, revised from the previously published 2.1 percent increase. This follows a 1.5 percent August decrease and is the third increase in the last four months.

Industrial machinery and equipment, up three of the last four months, had the largest increase, \$1.0 billion or 2.9 percent to \$35.0 billion. This follows a 2.6 percent August decrease. Electronic and other electrical equipment, up four of the last five months, increased \$0.8 billion or 2.8

percent to \$31.1 billion. This follows a 2.9 percent August increase. Instruments and related products, up three of the last four months, increased \$0.6 billion or 4.2 percent to \$13.6 billion, following a 1.9 percent August decrease. Transportation equipment increased \$0.4 billion or 1.0 percent to \$43.2 billion, as increases in aircraft and parts and railroad equipment more than offset a decline in motor vehicles and parts. This follows a 2.7 percent August decrease and is the third increase in the last four months. Fabricated metal products, up for the fourth consecutive month, increased \$0.3 billion or 1.7 percent to \$19.4 billion. This follows a 0.3 percent August increase.

Shipments of nondurable goods, up two of the last three months, increased \$0.9 billion or 0.6 percent to \$150.0 billion. This follows a slight August decrease. Chemicals and allied products had the largest increase, \$0.5 billion or 1.5 percent to \$33.0 billion. This follows a 0.9 percent August decrease and is the first increase since April.

Unfilled Orders

Unfilled orders for durable goods in September increased \$1.1 billion or 0.2 percent to \$502.1 billion, revised from the previously published 0.1 percent increase. This follows a 1.0 percent August increase and is the fourth increase in the last five months.

Primary metals, up for the ninth consecutive month, had the largest increase, \$1.1 billion or 3.3 percent to \$33.4 billion, following a 1.7 percent August increase. Electronic and other electrical equipment, up four of the last five months, increased \$0.5 billion or 0.9 percent to \$55.8 billion. This follows a 7.6 percent August increase. Fabricated metal products, up for the twenty-first consecutive month, increased \$0.3 billion or 1.1 percent to \$26.6 billion. This follows a 0.4 percent August increase. Industrial machinery and equipment, up for the third consecutive month, increased \$0.3 billion or 0.4 percent to \$73.9 billion, following a 0.9 percent August increase. Transportation equipment decreased \$0.7 billion or 0.3 percent to \$249.2 billion, due to aircraft and parts. This follows a 0.1 percent August increase and is the second decrease in the last three months. Instruments and related products declined for the second consecutive month, down \$0.5 billion or 1.0 percent to \$48.4 billion. This follows a 0.8 percent August decline.

Inventories

Inventories of durable goods in September, up fourteen of the last fifteen months, increased \$0.2 billion or 0.1 percent to \$282.1 billion. This follows a 0.4 percent August increase. Transportation equipment, up for the twenty-first consecutive month, increased \$0.4 billion or 0.5 percent to \$67.8 billion. This follows a 0.9 percent August increase. Fabricated metal products, up for the twelfth consecutive month, increased \$0.3 billion or 0.9 percent to \$28.9 billion, following a 0.3 percent August increase. Electronic and other electrical equipment, down for the second consecutive month, decreased \$0.2 billion or 0.5 percent to \$40.0 billion. This follows a 0.3 percent August decrease.

Inventories of nondurable goods, up thirteen of the last fourteen months, increased \$0.5 billion or 0.3 percent to \$167.1 billion, following a 0.5 percent August increase. Increases led by chemicals and allied products more than offset decreases led by petroleum and coal products.

By stage of fabrication, September finished goods decreased 0.5 percent in durables and increased 0.1 percent in nondurables. Work in process decreased 0.2 percent in durables and increased 0.4 percent in nondurables. Materials and supplies increased 1.0 percent in durables and 0.5 percent in nondurables.

Our internet site address is: <http://www.census.gov/ftp/pub/indicator/www/m3/index.htm>

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted ¹						
	Monthly			Percent Change			Monthly				Percent change Sept. 97/96	Year to date	
	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Aug.- Sept.	July- Aug.	June- July	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Sept. 1996		1997 ^p	1996
All manufacturing industries	335,321	330,178	332,895	+1.6	-0.8	+1.4	358,110	331,637	299,786	336,555	+6.4	2,938,357	2,777,055
Manufacturing Industries													
with unfilled orders	189,264	184,837	186,534	+2.4	-0.9	+1.1	205,319	183,677	165,286	188,154	+9.1	1,636,963	1,529,919
without defense capital goods	329,239	324,062	326,549	+1.6	-0.8	+1.5	351,566	325,755	294,187	329,889	+6.6	2,882,907	2,723,936
Durable goods industries	185,345	181,131	183,827	+2.3	-1.5	+1.7	200,304	178,524	156,290	184,229	+8.7	1,604,306	1,489,530
With unfilled orders	152,087	148,026	149,492	+2.7	-1.0	+1.0	165,691	145,242	129,870	149,982	+10.5	1,310,278	1,208,854
Stone, clay, and glass products	7,726	7,588	7,858	+1.8	-3.4	+4.8	8,351	8,132	7,847	7,564	+10.4	68,631	62,404
Primary metals	15,521	15,392	15,569	+0.8	-1.1	+0.9	15,934	15,320	14,101	14,786	+7.8	139,081	130,625
Blast furnaces, steel mills	6,184	6,161	6,263	+0.4	-1.6	-0.4	6,320	6,136	5,729	6,220	+1.6	56,416	54,570
Iron and steel foundries	1,492	1,472	1,560	+1.4	-5.6	+8.0	1,589	1,530	1,272	1,510	+5.2	13,331	12,608
Nonferrous and other primary metals	7,845	7,759	7,746	+1.1	+0.2	+0.7	8,025	7,654	7,100	7,056	+13.7	69,334	63,447
Fabricated metal products	19,421	19,094	19,042	+1.7	+0.3	+0.8	20,548	19,591	16,916	19,291	+6.5	170,096	161,173
Industrial machinery and equipment	35,037	34,042	34,949	+2.9	-2.6	+1.9	38,772	31,747	29,593	35,574	+9.0	301,678	281,832
Engines and turbines	1,904	1,936	1,987	-1.7	-2.6	+4.4	2,209	1,690	1,399	2,200	+0.4	16,375	16,141
Farm and garden machinery	2,101	2,086	2,261	+0.7	-7.7	+10.3	1,916	1,715	1,783	1,791	+7.0	19,063	17,558
Construction, mining and material handling equipment	3,926	3,866	3,858	+1.6	+0.2	+2.6	3,942	3,696	3,477	3,552	+11.0	34,179	31,082
Metalworking machinery	3,683	3,530	3,587	+4.3	-1.6	+0.8	4,125	3,328	3,008	3,435	+20.1	30,151	26,496
Computer and office equipment	9,511	9,323	9,473	+2.0	-1.6	+1.6	12,212	8,377	7,205	11,156	+9.5	80,205	73,813
Electronic and other electrical equipment	31,051	30,214	29,370	+2.8	+2.9	-0.6	34,872	29,377	25,362	30,164	+15.6	258,626	235,225
Electrical transmission and distribution equipment and industrial apparatus	3,505	3,260	3,352	+7.5	-2.7	+2.4	3,972	3,198	3,019	3,617	+9.8	29,797	28,364
Household appliances	2,128	1,993	1,987	+6.8	+0.3	-4.4	2,307	2,058	1,849	2,038	+13.2	18,327	17,657
Electric lighting and wiring equipment	2,217	2,133	2,152	+3.9	-0.9	+3.4	2,439	2,110	1,809	2,209	+10.4	18,897	17,745
Household audio and video equipment	1,307	1,284	1,287	+1.8	-0.2	-8.9	1,642	1,367	1,127	1,596	+2.9	11,038	10,398
Communications equipment	6,868	6,990	6,653	-1.7	+5.1	+2.0	7,735	6,386	5,627	6,556	+18.0	55,010	47,563
Electronic components	12,750	12,404	11,931	+2.8	+4.0	-0.8	14,216	12,165	10,342	11,841	+20.1	106,652	94,649
Transportation equipment	43,187	42,773	43,943	+1.0	-2.7	+3.6	45,291	42,082	32,018	43,625	+3.8	376,996	350,988
Motor vehicles and parts	29,723	29,954	30,313	-0.8	-1.2	+4.7	30,863	29,900	19,961	30,485	+1.2	262,183	251,777
Aircraft, missiles, space vehicles, and parts	10,523	10,152	10,977	+3.7	-7.5	+4.6	11,256	9,570	9,692	9,900	+13.7	90,298	74,141
Shipbuilding and tanks	845	862	918	-2.0	-6.1	-1.4	877	838	856	995	-11.9	7,914	8,149
Instruments and related products	13,629	13,077	13,328	+4.2	-1.9	+1.1	14,855	12,712	11,959	13,173	+12.8	116,431	108,277
Search and navigation equipment	2,773	2,633	2,751	+5.3	-4.3	+1.7	3,107	2,522	2,441	2,563	+21.2	23,651	21,606
Measuring and controlling devices	4,078	3,996	4,043	+2.1	-1.2	+1.1	4,404	3,960	3,501	3,922	+12.3	34,751	32,411
Medical instruments and supplies	4,296	4,085	4,152	+5.2	-1.6	-0.5	4,674	3,993	3,828	4,359	+7.2	36,881	34,629
Photographic goods	2,016	1,902	1,909	+6.0	-0.4	+2.6	2,187	1,776	1,712	1,929	+13.4	17,087	16,342
All other durable goods	19,773	18,951	19,768	+4.3	-4.1	+1.8	21,681	19,563	18,494	20,052	+8.1	172,767	159,006
Nondurable goods industries	149,976	149,047	149,068	+0.6	0.0	+1.0	157,806	153,113	143,496	152,326	+3.6	1,334,051	1,287,525
With unfilled orders	37,177	36,811	37,042	+1.0	-0.6	+1.5	39,628	38,435	35,416	38,172	+3.8	326,685	321,065
Food and kindred products	40,034	40,298	40,251	-0.7	+0.1	+0.4	42,292	41,127	38,735	41,648	+1.5	358,456	349,442
Meat products	8,810	8,999	9,012	-2.1	-0.1	+1.4	9,171	9,378	8,861	9,108	+0.7	79,780	78,368
Dairy products	4,973	5,031	5,001	-1.2	+0.6	+1.1	5,117	5,142	4,844	5,241	-2.4	44,906	43,881
Beverages	5,958	5,892	5,880	+1.1	+0.2	+2.7	6,119	6,418	6,280	5,868	+4.3	53,365	52,034
All other foods, except fats and oils	18,304	18,387	18,445	-0.5	-0.3	-0.8	19,896	18,200	16,837	19,364	+2.7	162,374	157,885
Tobacco products	3,360	3,215	3,180	+4.5	+1.1	-0.3	3,336	3,324	3,180	2,815	+18.5	28,498	25,523
Textile mill products	6,905	6,824	6,951	+1.2	-1.8	+3.5	7,668	7,190	6,220	7,332	+4.6	61,659	58,897
Broadwoven fabrics and other textiles	4,191	4,126	4,273	+1.6	-3.4	+4.2	4,635	4,301	3,672	4,548	+1.9	37,866	36,771
Paper and allied products	13,864	13,528	13,364	+2.5	+1.2	+0.3	14,391	13,797	13,047	13,702	+5.0	121,049	122,482
Pulp, paper, and paperboard mill products	5,601	5,399	5,200	+3.7	+3.8	+1.5	5,797	5,502	5,157	5,491	+5.6	47,916	49,692
Paperboard containers and boxes	3,308	3,224	3,233	+2.6	-0.3	+0.7	3,401	3,305	3,125	3,362	+1.2	29,396	29,969
Miscellaneous converted paper products	4,955	4,905	4,931	+1.0	-0.5	-1.2	5,193	4,990	4,765	4,849	+7.1	43,737	42,821
Chemicals and allied products	32,950	32,449	32,748	+1.5	-0.9	0.0	33,969	32,025	31,112	32,368	+4.9	296,148	279,576
Industrial chemicals	16,194	15,943	15,921	+1.6	+0.1	+0.6	16,437	16,100	15,447	15,480	+6.2	145,419	137,753
Drugs, soaps, and toiletries	12,730	12,556	12,836	+1.4	-2.2	-0.6	14,028	12,296	11,931	13,594	+3.2	112,704	105,403
Petroleum and coal products	15,531	15,814	15,211	-1.8	+4.0	+1.5	15,998	16,630	15,350	15,959	+0.2	138,480	131,427
Rubber and plastics products	12,598	12,340	12,508	+2.1	-1.3	+2.0	13,149	12,572	11,610	12,465	+5.5	112,845	109,249
All other nondurable goods	24,734	24,579	24,855	+0.6	-1.1	+2.2	27,003	26,448	24,242	26,037	+3.7	216,916	210,929

^p Preliminary. ^r Revised.

¹ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted ¹						
	Monthly			Percent Change			Monthly				Percent change Sept. 97/96	Year to date	
	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Aug.- Sept.	July- Aug.	June- July	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Sept. 1996		1997 ^p	1996
All manufacturing industries	336,475	335,040	331,138	+0.4	+1.2	+0.5	353,854	335,065	300,000	335,124	+5.6	2,949,029	2,802,817
Manufacturing industries													
with unfilled orders	190,418	189,699	184,777	+0.4	+2.7	-0.5	201,063	187,105	165,500	186,723	+7.7	1,647,635	1,555,681
without defense capital goods	330,992	329,733	325,161	+0.4	+1.4	+0.6	348,726	331,001	296,187	329,567	+5.8	2,901,538	2,748,343
Durable goods industries	186,441	186,195	181,679	+0.1	+2.5	+0.1	196,623	182,669	155,513	183,300	+7.3	1,613,381	1,513,677
With unfilled orders	153,183	153,090	147,344	+0.1	+3.9	-1.1	162,010	149,387	129,093	149,053	+8.7	1,319,353	1,233,001
Stone, clay, and glass products	7,684	7,389	7,566	+4.0	-2.3	-0.4	8,246	7,955	7,667	7,702	+7.1	68,459	62,380
Primary metals	16,591	15,919	16,258	+4.2	-2.1	+3.6	16,449	15,461	14,829	14,062	+17.0	143,080	132,341
Blast furnaces, steel mills	6,404	6,224	6,511	+2.9	-4.4	+0.8	6,107	6,109	6,032	5,782	+5.6	57,599	55,182
Iron and steel foundries	1,616	1,528	1,667	+5.8	-8.3	+8.0	1,642	1,489	1,349	1,459	+12.5	14,055	13,276
Nonferrous and other primary metals	8,571	8,167	8,080	+4.9	+1.1	+5.1	8,700	7,863	7,448	6,821	+27.5	71,426	63,883
Fabricated metal products	19,705	19,186	19,264	+2.7	-0.4	-0.2	20,684	19,590	17,470	19,499	+6.1	172,666	162,974
Industrial machinery and equipment	35,306	34,704	35,107	+1.7	-1.1	+6.1	38,768	32,296	30,018	34,982	+10.8	302,305	282,945
Engines and turbines	1,865	2,097	1,871	-11.1	+12.1	+27.8	2,525	1,973	1,485	2,450	+3.1	15,564	15,828
Construction, mining and material handling equipment	3,993	4,050	4,006	-1.4	+1.1	+4.0	4,046	3,740	3,397	3,712	+9.0	34,798	31,516
Metalworking machinery	3,326	3,713	3,425	-10.4	+8.4	+11.0	3,768	3,511	2,846	3,443	+9.4	29,697	27,201
Computer and office equipment	9,593	9,154	9,362	+4.8	-2.2	+6.6	11,982	8,182	7,284	10,556	+13.5	78,922	73,929
Electronic and other electrical equipment	31,525	34,123	26,365	-7.6	+29.4	-12.2	33,011	33,891	23,487	27,572	+19.7	265,121	234,146
Electrical transmission and distribution equipment and industrial apparatus	3,493	3,197	3,271	+9.3	-2.3	+2.6	3,817	3,115	3,062	3,469	+10.0	29,893	28,511
Electric lighting and wiring equipment	2,140	2,242	2,329	-4.5	-3.7	+13.4	2,362	2,219	1,986	2,159	+9.4	19,141	18,138
Communications equipment	7,288	6,867	6,324	+6.1	+8.6	-14.6	8,213	6,218	5,271	5,921	+38.7	57,737	47,204
Electronic components	12,697	16,235	9,069	-21.8	+79.0	-22.7	12,112	16,460	8,519	10,282	+17.8	108,640	92,957
Transportation equipment	42,509	43,038	41,752	-1.2	+3.1	-2.7	43,663	41,612	28,898	46,935	-7.0	368,357	372,291
Aircraft, missiles, space vehicles, and parts	9,106	10,972	8,884	-17.0	+23.5	-21.2	9,023	9,586	6,433	13,435	-32.8	82,638	95,466
Shipbuilding and tanks	1,007	500	549	+101.4	-8.9	-39.2	1,026	391	418	597	+71.9	6,333	7,905
Instruments and related products	13,144	12,693	15,387	+3.6	-17.5	+15.2	14,133	12,187	14,005	12,739	+10.9	118,562	106,464
Search and navigation equipment	2,471	2,299	4,494	+7.5	-48.8	+56.2	2,746	2,028	3,960	2,458	+11.7	24,401	19,618
Measuring and controlling devices	3,911	3,957	4,061	-1.2	-2.6	+3.5	4,237	3,921	3,519	3,613	+17.3	34,813	31,913
Medical instruments and supplies	4,245	4,230	4,100	+0.4	+3.2	+3.2	4,522	4,223	3,948	4,381	+3.2	37,267	35,126
All other durable goods	19,977	19,143	19,980	+4.4	-4.2	+2.0	21,669	19,677	19,139	19,809	+9.4	174,831	160,136
Nondurable goods industries	150,034	148,845	149,459	+0.8	-0.4	+1.0	157,231	152,396	144,487	151,824	+3.6	1,335,648	1,289,140
With unfilled orders	37,235	36,609	37,433	+1.7	-2.2	+1.6	39,053	37,718	36,407	37,670	+3.7	328,282	322,680

^p Preliminary. ^r Revised.

¹ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

(n) When new orders for a prior month are negative because of cancellations, the percentage change calculation is algebraically negative, even though there is a net dollar increase from the prior month to the current month.

Note: Estimates of manufacturers' shipments, inventories and orders are subject to survey error and revision. One major component of survey error is nonsampling error which includes errors of coverage, response, and nonreporting. Since the survey panel is not a probability sample, estimates of sampling error cannot be calculated. Further details on survey design, methodology, and data limitations are contained in our most recent annual benchmark publication, Current Industrial Reports: M3-1(95) "Manufacturers' Shipments, Inventories, and Orders: 1982-1995."

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted				
	Monthly			Percent Change			Monthly				Percent change Sept. 97/96
	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Aug.- Sept.	July- Aug.	June- July	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Sept. 1996	
All manufacturing industries	528,187	527,033	522,171	+0.2	+0.9	-0.3	522,891	527,147	523,719	502,796	+4.0
Manufacturing industries without defense capital goods	421,938	420,185	414,514	+0.4	+1.4	-0.3	419,172	422,012	416,766	397,139	+5.5
Durable goods industries	502,123	501,027	495,963	+0.2	+1.0	-0.4	496,649	500,330	496,185	478,160	+3.9
Stone, clay, and glass products	6,354	6,396	6,595	-0.7	-3.0	-4.2	6,405	6,510	6,687	6,785	-5.6
Primary metals	33,350	32,280	31,753	+3.3	+1.7	+2.2	32,437	31,922	31,781	28,908	+12.2
Blast furnaces, steel mills	13,125	12,905	12,842	+1.7	+0.5	+2.0	12,718	12,931	12,958	12,120	+4.9
Iron and steel foundries	5,145	5,021	4,965	+2.5	+1.1	+2.2	5,016	4,963	5,004	4,203	+19.3
Nonferrous and other primary metals	15,080	14,354	13,946	+5.1	+2.9	+2.5	14,703	14,028	13,819	12,585	+16.8
Fabricated metal products	26,586	26,302	26,210	+1.1	+0.4	+0.9	26,800	26,664	26,665	23,990	+11.7
Industrial machinery and equipment	73,873	73,604	72,942	+0.4	+0.9	+0.2	72,791	72,795	72,246	71,826	+1.3
Engines and turbines	11,710	11,749	11,588	-0.3	+1.4	-1.0	11,890	11,574	11,291	11,981	-0.8
Construction, mining and material handling equipment	9,544	9,477	9,293	+0.7	+2.0	+1.6	9,248	9,144	9,100	8,802	+5.1
Metalworking machinery	7,756	8,113	7,930	-4.4	+2.3	-2.0	7,756	8,113	7,930	8,871	-12.6
Computer and office equipment	8,680	8,598	8,767	+1.0	-1.9	-1.3	8,498	8,728	8,923	9,562	-11.1
Electronic and other electrical equipment	55,805	55,331	51,422	+0.9	+7.6	-5.5	54,357	56,218	51,704	48,394	+12.3
Electrical transmission and distribution equipment and industrial apparatus	6,525	6,537	6,600	-0.2	-1.0	-1.2	6,398	6,553	6,636	6,232	+2.7
Electric lighting and wiring equipment	4,658	4,735	4,626	-1.6	+2.4	+4.0	4,658	4,735	4,626	4,275	+9.0
Communications equipment	15,103	14,683	14,806	+2.9	-0.8	-2.2	15,127	14,649	14,817	13,143	+15.1
Electronic components	23,088	23,141	19,310	-0.2	+19.8	-12.9	21,749	23,853	19,558	19,640	+10.7
Transportation equipment	249,235	249,913	249,648	-0.3	+0.1	-0.9	247,096	248,724	249,194	245,838	+0.5
Aircraft, missiles, space vehicles, and parts	217,402	218,819	217,999	-0.6	+0.4	-1.0	215,249	217,482	217,466	213,890	+0.6
Shipbuilding and tanks	17,874	17,712	18,074	+0.9	-2.0	-2.0	17,872	17,723	18,170	18,191	-1.8
Instruments and related products	48,421	48,906	49,290	-1.0	-0.8	+4.4	47,943	48,665	49,190	44,743	+7.2
Search and navigation equipment	28,768	29,070	29,404	-1.0	-1.1	+6.3	28,367	28,728	29,222	26,789	+5.9
Measuring and controlling devices	9,809	9,976	10,015	-1.7	-0.4	+0.2	9,809	9,976	10,015	9,226	+6.3
Medical instruments and supplies	7,891	7,942	7,797	-0.6	+1.9	-0.7	7,812	7,964	7,734	7,815	0.0
All other durable goods	8,499	8,295	8,103	+2.5	+2.4	+2.7	8,820	8,832	8,718	7,676	+14.9
Nondurable goods industries	26,064	26,006	26,208	+0.2	-0.8	+1.5	26,242	26,817	27,534	24,636	+6.5

^p Preliminary. ^r Revised.

See note at end of table 2 relating to survey error and revision.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted				
	Monthly			Percent Change			Monthly				Percent change Sept. 97/96
	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Aug.- Sept.	July- Aug.	June- July	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Sept. 1996	
All manufacturing industries	449,136	448,447	446,602	+0.2	+0.4	+0.4	448,670	452,128	448,123	431,950	+3.9
Manufacturing industries with unfilled orders	298,055	298,344	297,046	-0.1	+0.4	+0.6	297,615	302,607	299,850	286,178	+4.0
without defense capital goods	432,651	432,336	430,559	+0.1	+0.4	+0.4	431,858	435,685	431,679	414,865	+4.1
Durable goods industries	282,060	281,878	280,800	+0.1	+0.4	+0.6	281,398	285,033	282,366	269,918	+4.3
With unfilled orders	258,411	258,940	257,852	-0.2	+0.4	+0.7	257,962	262,433	259,899	247,234	+4.3
Stone, clay, and glass products	8,745	8,707	8,701	+0.4	+0.1	-0.8	8,552	8,674	8,780	8,255	+3.6
Primary metals	24,809	24,895	24,802	-0.3	+0.4	+0.2	24,751	24,971	24,891	24,309	+1.8
Blast furnaces, steel mills	12,060	12,091	12,067	-0.3	+0.2	-0.5	12,060	12,069	12,041	11,994	+0.6
Iron and steel foundries	1,657	1,642	1,651	+0.9	-0.5	-1.0	1,621	1,612	1,644	1,609	+0.7
Nonferrous and other primary metals	11,092	11,162	11,084	-0.6	+0.7	+1.2	11,070	11,290	11,206	10,706	+3.4
Fabricated metal products	28,892	28,639	28,547	+0.9	+0.3	+0.2	28,634	28,668	28,818	27,053	+5.8
Industrial machinery and equipment	60,118	60,241	60,187	-0.2	+0.1	+0.7	59,669	61,170	60,363	58,595	+1.8
Engines and turbines	3,733	3,657	3,658	+2.1	0.0	+0.9	3,831	3,853	3,718	3,754	+2.1
Farm and garden machinery	3,241	3,261	3,308	-0.6	-1.4	+0.7	3,043	3,063	3,083	2,824	+7.8
Construction, mining and material handling equipment	7,932	7,901	7,867	+0.4	+0.4	+1.4	7,853	7,840	7,788	7,370	+6.6
Metalworking machinery	7,172	7,259	7,312	-1.2	-0.7	-0.2	7,251	7,550	7,489	7,317	-0.9
Computer and office equipment	11,951	12,083	12,090	-1.1	-0.1	+1.7	11,676	12,742	12,391	12,220	-4.5
Electronic and other electrical equipment	39,986	40,176	40,290	-0.5	-0.3	+1.5	39,949	40,946	40,899	39,296	+1.7
Electrical transmission and distribution equipment and industrial apparatus	5,238	5,255	5,285	-0.3	-0.6	-0.6	5,237	5,317	5,322	5,101	+2.7
Household appliances	2,743	2,784	2,862	-1.5	-2.7	+2.1	2,587	2,716	2,834	2,656	-2.6
Electric lighting and wiring equipment	3,389	3,382	3,375	+0.2	+0.2	+0.6	3,342	3,448	3,457	3,187	+4.9
Household audio and video equipment	1,541	1,582	1,652	-2.6	-4.2	+10.4	1,586	1,710	1,767	1,694	-6.4
Communications equipment	10,865	10,915	10,990	-0.5	-0.7	+3.6	10,900	11,147	11,052	10,242	+6.4
Electronic components	12,862	12,811	12,586	+0.4	+1.8	-0.4	12,939	13,039	12,791	12,994	-0.4
Transportation equipment	67,843	67,486	66,896	+0.5	+0.9	+0.8	68,081	68,371	67,103	62,069	+9.7
Motor vehicles and parts	17,091	16,713	16,958	+2.3	-1.4	0.0	17,231	16,990	17,046	16,758	+2.8
Aircraft, missiles, space vehicles, and parts	46,035	46,038	45,193	0.0	+1.9	+1.0	46,150	46,604	45,327	40,506	+13.9
Shipbuilding and tanks	1,623	1,587	1,587	+2.3	0.0	-1.7	1,600	1,573	1,595	1,712	-6.5
Instruments and related products	24,883	25,019	25,000	-0.5	+0.1	+0.5	25,002	25,510	25,298	24,563	+1.8
Search and navigation equipment	6,171	6,306	6,321	-2.1	-0.2	+1.0	6,183	6,463	6,449	6,075	+1.8
Measuring and controlling devices	7,787	7,829	7,890	-0.5	-0.8	-0.2	7,787	7,960	7,999	7,639	+1.9
Medical instruments and supplies	7,949	7,930	7,855	+0.2	+1.0	+1.0	7,925	8,051	7,880	7,500	+5.7
Photographic goods	2,313	2,294	2,284	+0.8	+0.4	-0.3	2,449	2,373	2,317	2,734	-10.4
All other durable goods	26,784	26,715	26,377	+0.3	+1.3	-0.1	26,760	26,723	26,214	25,778	+3.8
Nondurable goods industries	167,076	166,569	165,802	+0.3	+0.5	+0.1	167,272	167,095	165,757	162,032	+3.2
With unfilled orders	39,644	39,404	39,194	+0.6	+0.5	-0.1	39,653	40,174	39,951	38,944	+1.8
Food and kindred products	35,356	35,229	35,103	+0.4	+0.4	-0.3	36,197	35,030	33,963	35,564	+1.8
Meat products	3,866	3,881	3,868	-0.4	+0.3	+0.3	3,858	3,810	3,867	3,735	+3.3
Dairy products	3,163	3,141	3,128	+0.7	+0.4	-3.2	3,198	3,230	3,273	3,296	-3.0
Beverages	7,027	6,866	6,737	+2.3	+1.9	+1.2	7,189	6,733	6,601	6,785	+6.0
All other foods, except fats and oils	19,426	19,521	19,558	-0.5	-0.2	+0.1	20,417	19,694	18,531	20,197	+1.1
Tobacco products	6,039	6,140	6,223	-1.6	-1.3	+0.4	5,912	5,834	5,695	5,870	+0.7
Textile mill products	10,314	10,294	10,241	+0.2	+0.5	+0.2	10,113	10,386	10,380	9,782	+3.4
Broadwoven fabrics and other textiles	6,419	6,404	6,361	+0.2	+0.7	0.0	6,271	6,447	6,432	6,123	+2.4
Paper and allied products	16,159	15,941	15,859	+1.4	+0.5	+0.2	16,038	15,899	15,800	16,305	-1.6
Pulp, paper, and paperboard mill products	6,582	6,560	6,550	+0.3	+0.2	-0.1	6,536	6,552	6,478	6,836	-4.4
Paperboard containers and boxes	3,840	3,832	3,831	+0.2	0.0	+0.8	3,840	3,820	3,821	3,919	-2.0
Miscellaneous converted paper products	5,737	5,549	5,478	+3.4	+1.3	+0.3	5,662	5,527	5,501	5,550	+2.0
Chemicals and allied products	43,119	42,633	42,547	+1.1	+0.2	+0.4	42,845	42,588	42,675	40,360	+6.2
Industrial chemicals	19,882	19,807	19,611	+0.4	+1.0	+0.1	19,842	19,744	19,592	19,081	+4.0
Drugs, soaps, and toiletries	17,882	17,539	17,697	+2.0	-0.9	+0.9	17,936	17,863	18,057	16,520	+8.6
Petroleum and coal products	12,199	12,431	12,171	-1.9	+2.1	-1.5	12,299	12,594	12,325	12,319	-0.2
Rubber and plastics products	16,316	16,361	16,299	-0.3	+0.4	+0.3	15,971	16,159	16,281	15,165	+5.3
All other nondurable goods	27,574	27,540	27,359	+0.1	+0.7	+0.4	27,897	28,605	28,638	26,667	+4.6

^p Preliminary. ^r Revised.

See note at end of table 2 relating to survey error and revision.

**Table 5. VALUE OF MANUFACTURERS' SHIPMENTS AND NEW ORDERS
FOR TOPICAL SERIES¹
(Millions of dollars)**

Industry	Seasonally adjusted						Not seasonally adjusted ²						
	Monthly			Percent Change			Monthly				Percent change	Year to date	
	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Aug.-Sept.	July-Aug.	June-July	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Sept. 1996	Sept. 97/96	1997 ^p	1996
SHIPMENTS													
All manufacturing industries	335,321	330,178	332,895	+1.6	-0.8	+1.4	358,110	331,637	299,786	336,555	+6.4	2,938,357	2,777,055
Market categories :													
Automotive equipment	14,710	14,733	14,937	-0.2	-1.4	+4.4	15,477	14,637	10,014	15,391	+0.6	128,862	124,877
Home goods and apparel	19,530	18,859	19,104	+3.6	-1.3	+0.1	22,357	20,019	17,772	20,864	+7.2	169,655	161,754
Consumer staples	69,430	69,544	69,346	-0.2	+0.3	+0.4	73,538	71,183	67,061	71,495	+2.9	616,604	591,682
Machinery and equipment	61,814	60,118	61,741	+2.8	-2.6	+3.3	67,594	57,137	51,380	61,661	+9.6	526,282	481,555
Business supplies	25,880	25,636	25,697	+1.0	-0.2	+0.9	26,931	25,960	24,324	25,594	+5.2	227,840	218,381
Construction materials and supplies	21,177	20,814	21,382	+1.7	-2.7	+3.1	22,783	22,018	20,743	21,405	+6.4	187,869	175,796
Defense products	6,468	6,488	6,737	-0.3	-3.7	-3.9	6,956	6,301	6,037	7,002	-0.7	58,987	56,505
Other materials, supplies and intermediate products	116,312	113,986	113,951	+2.0	0.0	+1.0	122,474	114,382	102,455	113,143	+8.2	1,022,258	966,505
Durable goods industries :													
Nondefense capital goods ³	48,640	46,897	48,058	+3.7	-2.4	+2.7	54,544	43,873	41,286	48,359	+12.8	408,458	368,918
Excluding aircraft and parts	41,365	39,982	40,454	+3.5	-1.2	+1.1	46,773	37,470	34,588	42,219	+10.8	348,269	323,330
Defense capital goods ⁴	6,082	6,116	6,346	-0.6	-3.6	-4.7	6,544	5,882	5,599	6,666	-1.8	55,450	53,119
Durables excluding capital goods	130,623	128,118	129,423	+2.0	-1.0	+1.7	139,216	128,769	109,405	129,204	+7.7	1,140,398	1,067,493
Miscellaneous series :													
Producers' durable equipment	119,255	116,501	118,171	+2.4	-1.4	+2.2	129,245	113,444	95,863	119,459	+8.2	1,026,106	956,094
Household durable goods	10,086	9,496	9,660	+6.2	-1.7	-2.9	11,719	9,637	8,380	10,596	+10.6	85,637	79,769
Information technology industries	23,161	22,764	22,774	+1.7	0.0	+2.1	27,362	21,083	18,700	24,171	+13.2	192,825	175,145
Health care equipment and products	11,220	10,914	11,131	+2.8	-1.9	-0.5	12,294	10,689	10,307	11,736	+4.8	98,186	91,962
NEW ORDERS													
All manufacturing industries	336,475	335,040	331,138	+0.4	+1.2	+0.5	353,854	335,065	300,000	335,124	+5.6	2,949,029	2,802,817
Market categories :													
Automotive equipment	14,703	14,746	14,946	-0.3	-1.3	+4.4	15,412	14,711	10,087	15,345	+0.4	129,088	124,918
Home goods and apparel	19,881	18,768	19,575	+5.9	-4.1	+1.6	22,436	19,663	18,622	20,570	+9.1	171,715	163,499
Consumer staples	69,356	69,455	69,431	-0.1	0.0	+0.4	73,322	71,106	67,446	71,273	+2.9	616,901	591,987
Machinery and equipment	62,202	61,456	61,599	+1.2	-0.2	+2.3	67,123	58,264	51,584	63,897	+5.0	531,001	500,370
Business supplies	25,743	25,541	25,759	+0.8	-0.8	+0.8	26,609	25,886	24,548	25,435	+4.6	228,206	218,739
Construction materials and supplies	21,213	20,873	21,574	+1.6	-3.2	+3.2	22,752	21,970	21,058	21,493	+5.9	189,057	176,515
Defense products	5,893	5,805	6,423	+1.5	-9.6	-4.0	5,538	4,604	4,368	5,706	-2.9	51,085	57,474
Other materials, supplies and intermediate products	117,484	118,396	111,831	-0.8	+5.9	-1.4	120,662	118,861	102,287	111,405	+8.3	1,031,976	969,315
Durable goods industries :													
Nondefense capital goods ³	49,060	47,987	47,412	+2.2	+1.2	+0.4	54,476	44,750	40,917	51,253	+6.3	410,883	387,938
Excluding aircraft and parts	42,789	40,110	42,136	+6.7	-4.8	+6.6	47,709	37,385	36,547	40,867	+16.7	354,081	324,265
Defense capital goods ⁴	5,483	5,307	5,977	+3.3	-11.2	-4.7	5,128	4,064	3,813	5,557	-7.7	47,491	54,474
Durables excluding capital goods	131,898	132,901	128,290	-0.8	+3.6	+0.1	137,019	133,855	110,783	126,490	+8.3	1,155,007	1,071,265
Miscellaneous series :													
Producers' durable equipment	119,939	117,747	118,555	+1.9	-0.7	+2.1	128,680	114,751	97,741	120,982	+6.4	1,034,729	975,308
Household durable goods	10,310	9,348	10,105	+10.3	-7.5	-0.8	11,802	9,364	9,212	10,354	+14.0	87,525	80,578
Information technology industries	23,389	22,279	24,153	+5.0	-7.8	+6.3	27,282	20,572	20,273	22,573	+20.9	196,611	173,588
Health care equipment and products	11,171	11,062	11,082	+1.0	-0.2	+0.8	12,143	10,921	10,431	11,758	+3.3	98,588	92,464

^p Preliminary. ^r Revised.

¹ Topical series are regroupings of the separate industry categories.

² Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

³ Nondefense capital goods industries include : ordnance and accessories; steam, gas and hydraulic turbines; internal combustion engines; construction, mining, and material handling equipment; metalworking machinery; special industry machinery; general industrial machinery; computer and office equipment; refrigeration, heating and air conditioning machinery; electrical transmission and distribution equipment; electrical industrial apparatus; communications equipment; aircraft, missiles, space vehicles, and their parts; ships and tank components; railroad equipment; and search and navigation equipment.

⁴ Defense capital goods industries include : ordnance and accessories; communications equipment; aircraft, missiles, space vehicles, and engines and parts; ships, and tank components; and search and navigation equipment.

See note at end of table 2 relating to survey error and revision.

**Table 6. VALUE OF MANUFACTURERS' UNFILLED ORDERS AND TOTAL INVENTORIES
FOR TOPICAL SERIES¹
(Millions of dollars)**

Industry	Seasonally adjusted						Not seasonally adjusted				
	Monthly			Percent Change			Monthly				Percent change Sept. 97/96
	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Aug.- Sept.	July- Aug.	June- July	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Sept. 1996	
UNFILLED ORDERS											
All manufacturing industries	528,187	527,033	522,171	+0.2	+0.9	-0.3	522,891	527,147	523,719	502,796	+4.0
Market categories :											
Automotive equipment	2,424	2,432	2,418	-0.3	+0.6	+0.3	2,428	2,494	2,420	2,277	+6.6
Home goods and apparel	9,237	8,886	8,977	+4.0	-1.0	+5.5	9,566	9,486	9,842	9,246	+3.5
Consumer staples	2,294	2,368	2,458	-3.1	-3.7	+3.6	2,457	2,673	2,750	2,184	+12.5
Machinery and equipment	234,295	233,907	232,570	+0.2	+0.6	-0.1	233,291	233,761	232,635	227,146	+2.7
Business supplies	6,880	7,017	7,112	-2.0	-1.3	+0.9	6,976	7,297	7,371	6,698	+4.2
Construction materials and supplies	17,255	17,219	17,159	+0.2	+0.3	+1.1	17,316	17,347	17,395	16,163	+7.1
Defense products	101,737	102,311	102,995	-0.6	-0.7	-0.3	99,204	100,622	102,319	100,658	-1.4
Other materials, supplies and and intermediate products	154,065	152,893	148,482	+0.8	+3.0	-1.4	151,653	153,467	148,987	138,424	+9.6
Durable goods industries :											
Nondefense capital goods ³	253,048	252,628	251,538	+0.2	+0.4	-0.3	251,948	252,016	251,139	245,373	+2.7
Excluding aircraft and parts	100,687	99,263	99,135	+1.4	+0.1	+1.7	99,587	98,651	98,736	94,584	+5.3
Defense capital goods ⁴	106,249	106,848	107,657	-0.6	-0.8	-0.3	103,719	105,135	106,953	105,657	-1.8
Durables excluding capital goods	142,826	141,551	136,768	+0.9	+3.5	-0.8	140,982	143,179	138,093	127,130	+10.9
Miscellaneous series :											
Producers' durable equipment	272,262	271,578	270,332	+0.3	+0.5	+0.1	271,633	272,198	270,891	263,543	+3.1
Household durable goods	6,436	6,212	6,360	+3.6	-2.3	+7.5	6,688	6,605	6,878	5,769	+15.9
Information technology industries	39,050	38,822	39,307	+0.6	-1.2	+3.6	38,876	38,956	39,467	34,951	+11.2
Health care equipment and products	7,936	7,985	7,838	-0.6	+1.9	-0.6	7,859	8,010	7,777	7,846	+0.2
TOTAL INVENTORIES											
All manufacturing industries	449,136	448,447	446,602	+0.2	+0.4	+0.4	448,670	452,128	448,123	431,950	+3.9
Market categories :											
Automotive equipment	8,496	8,231	8,361	+3.2	-1.6	-0.5	8,539	8,376	8,367	8,311	+2.7
Home goods and apparel	32,732	32,808	32,754	-0.2	+0.2	+1.5	32,616	33,504	33,634	31,340	+4.1
Consumer staples	69,250	68,976	68,942	+0.4	0.0	0.0	70,149	69,116	68,020	67,832	+3.4
Machinery and equipment	113,291	113,816	113,279	-0.5	+0.5	+0.9	112,783	115,497	113,512	105,678	+6.7
Business supplies	26,900	26,751	26,340	+0.6	+1.6	-0.8	27,009	27,162	26,682	25,969	+4.0
Construction materials and supplies	27,645	27,575	27,458	+0.3	+0.4	+0.3	27,384	27,532	27,613	26,280	+4.2
Defense products	16,146	15,800	15,757	+2.2	+0.3	+0.7	16,400	16,063	16,095	16,596	-1.2
Other materials, supplies and and intermediate products	154,676	154,490	153,711	+0.1	+0.5	+0.2	153,790	154,878	154,200	149,944	+2.6
Durable goods industries :											
Nondefense capital goods ³	107,381	108,103	107,363	-0.7	+0.7	+1.1	106,881	109,883	107,789	99,650	+7.3
Excluding aircraft and parts	71,807	72,127	72,065	-0.4	+0.1	+1.1	71,516	73,555	72,661	70,141	+2.0
Defense capital goods ⁴	16,485	16,111	16,043	+2.3	+0.4	+0.7	16,812	16,443	16,444	17,085	-1.6
Durables excluding capital goods	158,194	157,664	157,394	+0.3	+0.2	+0.2	157,705	158,707	158,133	153,183	+3.0
Miscellaneous series :											
Producers' durable equipment	182,407	183,108	183,008	-0.4	+0.1	+0.7	181,696	185,541	183,833	173,050	+5.0
Household durable goods	16,288	16,377	16,424	-0.5	-0.3	+1.9	16,188	16,696	16,653	15,636	+3.5
Information technology industries	34,996	35,289	35,360	-0.8	-0.2	+1.5	34,869	36,419	35,904	34,755	+0.3
Health care equipment and products	17,648	17,448	17,455	+1.1	0.0	+1.0	17,652	17,741	17,673	16,465	+7.2

See footnotes at end of table 5.

See note at end of table 2 relating to survey error and revision.

**Table 7. VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION,
BY INDUSTRY GROUP**
(Millions of dollars)

Industry	Seasonally adjusted						Not seasonally adjusted				
	Monthly			Percent Change			Monthly				Percent change Sept. 97/96
	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Aug.- Sept.	July- Aug.	June- July	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	Sept. 1996	
MATERIALS AND SUPPLIES											
All manufacturing industries	148,458	147,304	147,367	+0.8	0.0	+0.2	148,507	147,792	147,709	145,544	+2.0
Durable goods industries	87,211	86,360	86,461	+1.0	-0.1	+0.4	87,771	87,291	86,910	85,337	+2.9
Stone, clay, and glass products	2,909	2,873	2,912	+1.3	-1.3	+0.7	2,919	2,907	2,915	2,839	+2.8
Primary metals	7,995	8,035	8,045	-0.5	-0.1	+1.0	8,080	8,118	8,013	7,814	+3.4
Fabricated metal products	10,676	10,468	10,464	+2.0	0.0	+0.7	10,618	10,446	10,500	10,098	+5.1
Industrial machinery and equipment	18,363	18,124	18,252	+1.3	-0.7	-0.4	18,559	18,622	18,352	18,842	-1.5
Electronic and other electrical equipment	13,704	13,629	13,829	+0.6	-1.4	+1.0	13,833	13,827	14,070	13,674	+1.2
Transportation equipment	14,926	14,713	14,684	+1.4	+0.2	+1.8	14,915	14,770	14,869	13,915	+7.2
Instruments and related products	8,441	8,395	8,300	+0.5	+1.1	+0.4	8,488	8,489	8,361	8,035	+5.6
Lumber, furniture and miscellaneous durable goods	10,197	10,123	9,975	+0.7	+1.5	-1.6	10,359	10,112	9,830	10,120	+2.4
Nondurable goods industries	61,247	60,944	60,906	+0.5	+0.1	-0.1	60,736	60,501	60,799	60,207	+0.9
Food and kindred products	11,220	11,201	11,214	+0.2	-0.1	-0.3	10,886	10,784	10,871	11,122	-2.1
Tobacco products	5,195	5,186	5,222	+0.2	-0.7	-1.0	5,054	5,017	4,930	4,873	+3.7
Textile mill products	3,183	3,172	3,147	+0.3	+0.8	+0.2	3,087	3,153	3,185	2,880	+7.2
Paper and allied products	7,737	7,683	7,714	+0.7	-0.4	+0.2	7,735	7,652	7,636	7,988	-3.2
Chemicals and allied products	14,563	14,360	14,285	+1.4	+0.5	+0.8	14,562	14,313	14,419	13,804	+5.5
Petroleum and coal products	3,511	3,582	3,531	-2.0	+1.4	-2.6	3,507	3,629	3,572	3,648	-3.9
Rubber and plastics products	6,275	6,212	6,213	+1.0	0.0	0.0	6,237	6,149	6,278	6,093	+2.4
Apparel, printing and publishing and leather goods	9,563	9,548	9,580	+0.2	-0.3	-0.5	9,668	9,804	9,908	9,799	-1.3
WORK IN PROCESS											
All manufacturing industries	142,626	142,775	141,675	-0.1	+0.8	+0.7	143,599	144,887	142,588	136,151	+5.5
Durable goods industries	114,376	114,626	113,931	-0.2	+0.6	+0.8	114,807	116,505	114,819	109,188	+5.1
Stone, clay, and glass products	1,275	1,271	1,171	+0.3	+8.5	-1.3	1,243	1,269	1,205	1,194	+4.1
Primary metals	8,791	8,829	8,837	-0.4	-0.1	-0.3	8,788	8,876	8,997	8,715	+0.8
Fabricated metal products	8,134	8,086	8,102	+0.6	-0.2	+1.2	8,211	8,238	8,194	7,793	+5.4
Industrial machinery and equipment	22,765	22,814	22,747	-0.2	+0.3	+0.3	22,849	23,236	22,986	22,101	+3.4
Electronic and other electrical equipment	15,075	15,066	14,946	+0.1	+0.8	+0.8	15,096	15,299	15,102	15,151	-0.4
Transportation equipment	43,235	43,395	42,807	-0.4	+1.4	+1.3	43,462	44,084	42,748	39,079	+11.2
Instruments and related products	9,903	10,040	10,182	-1.4	-1.4	+1.0	9,899	10,304	10,390	9,967	-0.7
Lumber, furniture and miscellaneous durable goods	5,198	5,125	5,139	+1.4	-0.3	0.0	5,259	5,199	5,197	5,188	+1.4
Nondurable goods industries	28,250	28,149	27,744	+0.4	+1.5	+0.6	28,792	28,382	27,769	26,963	+6.8
Food and kindred products	5,243	5,248	5,064	-0.1	+3.6	+1.4	5,490	4,942	4,616	5,211	+5.4
Tobacco products	137	179	216	-23.5	-17.1	-4.0	154	163	164	231	-33.3
Textile mill products	2,565	2,555	2,556	+0.4	0.0	+0.1	2,593	2,580	2,584	2,583	+0.4
Paper and allied products	1,789	1,735	1,686	+3.1	+2.9	-0.2	1,778	1,757	1,725	1,673	+6.3
Chemicals and allied products	7,630	7,518	7,484	+1.5	+0.5	+0.5	7,714	7,651	7,659	6,822	+13.1
Petroleum and coal products	2,616	2,630	2,589	-0.5	+1.6	-2.0	2,634	2,689	2,601	2,707	-2.7
Rubber and plastics products	2,301	2,267	2,236	+1.5	+1.4	+1.1	2,287	2,248	2,204	2,073	+10.3
Apparel, printing and publishing and leather goods	5,969	6,017	5,913	-0.8	+1.8	+1.5	6,142	6,352	6,216	5,663	+8.5
FINISHED GOODS											
All manufacturing industries	158,052	158,368	157,560	-0.2	+0.5	+0.3	156,564	159,449	157,826	150,255	+4.2
Durable goods industries	80,473	80,892	80,408	-0.5	+0.6	+0.5	78,820	81,237	80,637	75,393	+4.5
Stone, clay, and glass products	4,561	4,563	4,618	0.0	-1.2	-1.7	4,390	4,498	4,660	4,222	+4.0
Primary metals	8,023	8,031	7,920	-0.1	+1.4	-0.1	7,883	7,977	7,881	7,780	+1.3
Fabricated metal products	10,082	10,085	9,981	0.0	+1.0	-1.2	9,805	9,984	10,124	9,162	+7.0
Industrial machinery and equipment	18,990	19,303	19,188	-1.6	+0.6	+2.2	18,261	19,312	19,025	17,652	+3.5
Electronic and other electrical equipment	11,207	11,481	11,515	-2.4	-0.3	+2.9	11,020	11,820	11,727	10,471	+5.2
Transportation equipment	9,682	9,378	9,405	+3.2	-0.3	-3.1	9,704	9,517	9,486	9,075	+6.9
Instruments and related products	6,539	6,584	6,518	-0.7	+1.0	-0.2	6,615	6,717	6,547	6,561	+0.8
Lumber, furniture and miscellaneous durable goods	11,389	11,467	11,263	-0.7	+1.8	+1.3	11,142	11,412	11,187	10,470	+6.4
Nondurable goods industries	77,579	77,476	77,152	+0.1	+0.4	+0.1	77,744	78,212	77,189	74,862	+3.8
Food and kindred products	18,893	18,780	18,825	+0.6	-0.2	-0.7	19,821	19,304	18,476	19,231	+3.1
Tobacco products	707	775	785	-8.8	-1.3	+12.0	704	654	601	766	-8.1
Textile mill products	4,566	4,567	4,538	0.0	+0.6	+0.3	4,433	4,653	4,611	4,319	+2.6
Paper and allied products	6,633	6,523	6,459	+1.7	+1.0	+0.4	6,525	6,490	6,439	6,644	-1.8
Chemicals and allied products	20,926	20,755	20,778	+0.8	-0.1	+0.1	20,569	20,624	20,597	19,734	+4.2
Petroleum and coal products	6,072	6,219	6,051	-2.4	+2.8	-0.7	6,158	6,276	6,152	5,964	+3.3
Rubber and plastics products	7,740	7,882	7,850	-1.8	+0.4	+0.3	7,447	7,762	7,799	6,999	+6.4
Apparel, printing and publishing and leather goods	12,042	11,975	11,866	+0.6	+0.9	+0.6	12,087	12,449	12,514	11,205	+7.9

Table 8. RATIOS OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFULFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP
(Based on seasonally adjusted data)

Industry	Inventory / Shipments ratio				Unfilled Orders / Shipments ratio ¹			
	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	June 1997	Sept. 1997 ^p	Aug. 1997 ^r	July 1997	June 1997
All manufacturing industries	1.34	1.36	1.34	1.35	2.79	2.85	2.80	2.84
Durable goods industries	1.52	1.56	1.53	1.55	3.30	3.38	3.32	3.36
Stone, clay, and glass products	1.13	1.15	1.11	1.17	0.86	0.89	0.88	0.97
Primary metals	1.60	1.62	1.59	1.60	2.15	2.10	2.04	2.01
Fabricated metal products	1.49	1.50	1.50	1.51	1.46	1.46	1.46	1.46
Industrial machinery and equipment	1.72	1.77	1.72	1.74	2.24	2.30	2.23	2.26
Electronic and other electrical equipment	1.29	1.33	1.37	1.34	1.80	1.83	1.75	1.84
Transportation equipment	1.57	1.58	1.52	1.57	10.94	11.30	10.87	11.17
Instruments and related products	1.83	1.91	1.88	1.89	3.55	3.74	3.70	3.58
Nondurable goods industries	1.11	1.12	1.11	1.12	0.70	0.71	0.71	0.71
Food and kindred products	0.88	0.87	0.87	0.88	(X)	(X)	(X)	(X)
Tobacco products	1.80	1.91	1.96	1.94	(X)	(X)	(X)	(X)
Textile mill products	1.49	1.51	1.47	1.52	(NA)	(NA)	(NA)	(NA)
Paper and allied products	1.17	1.18	1.19	1.19	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.31	1.31	1.30	1.29	(X)	(X)	(X)	(X)
Petroleum and coal products	0.79	0.79	0.80	0.82	(X)	(X)	(X)	(X)
Rubber and plastics products	1.30	1.33	1.30	1.32	(X)	(X)	(X)	(X)

^p Preliminary. ^r Revised. (X) Not applicable. (NA) Not available.

¹ Excludes the following industries with no unfilled orders : Wood and lumber products; glass containers; metal cans, barrels and drums; farm and garden machine motor vehicle assembly operations; other transportation equipment; foods and related products; tobacco; knitting mill products; apparel and related products; chemical petroleum and coal products; and rubber and plastics products.

Table 9. REVISIONS TO PREVIOUSLY PUBLISHED MONTHLY PERCENT CHANGES
(Based on seasonally adjusted data)

Industry	Shipments			New orders			Unfilled orders			Inventories		
	Sept. ¹ 1997	Sept. ² 1996-1996	Sept. 1996-Aug. 1997	Sept. ¹ 1997	Sept. ² 1996-1996	Sept. 1996-Aug. 1997	Sept. ¹ 1997	Sept. ² 1996-1996	Sept. 1996-Aug. 1997	Sept. ¹ 1997	Sept. ² 1996-1996	Sept. 1996-Aug. 1997
All manufacturing industries	(X)	0.0	0.2	(X)	0.1	0.2	(X)	0.0	0.1	(X)	0.1	0.0
Durable goods industries	0.2	0.1	0.2	0.7	0.2	0.3	0.1	0.1	0.1	(X)	0.1	0.1
Stone, clay, and glass products	(X)	0.5	0.5	(X)	0.6	0.9	(X)	0.2	0.8	(X)	0.1	0.2
Primary metals	-0.1	0.2	0.2	-0.1	0.9	0.8	-0.1	0.5	0.3	(X)	0.1	0.0
Fabricated metal products	(X)	0.4	0.3	(X)	0.6	0.6	(X)	0.2	0.4	(X)	0.2	0.1
Industrial machinery and equipment	0.2	0.4	0.5	0.2	0.6	0.8	0.1	0.1	0.2	(X)	0.1	0.1
Electronic and other electrical equipment	-0.1	0.4	0.5	0.1	0.7	1.2	0.2	0.2	0.5	(X)	0.2	0.1
Transportation equipment	0.1	0.6	0.4	2.1	1.0	1.0	0.2	0.1	0.2	(X)	0.2	0.1
Instruments and related products	(X)	0.3	0.5	(X)	1.1	1.4	(X)	0.2	0.3	(X)	0.4	0.2
Nondurable goods industries	(X)	0.1	0.1	(X)	0.2	0.1	(X)	0.5	0.3	(X)	0.1	0.1
Food and kindred products	(X)	0.2	0.4	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.2	0.2
Tobacco products	(X)	0.1	0.1	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.0	0.0
Textile mill products	(X)	0.2	0.3	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	0.1	0.2
Paper and allied products	(X)	0.3	0.4	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	0.1	0.1
Chemicals and allied products	(X)	0.3	0.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.2	0.1
Petroleum and coal products	(X)	0.2	0.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.2	0.5
Rubber and plastics products	(X)	0.1	0.4	(X)	(X)	(X)	(X)	(X)	(X)	(X)	0.2	0.2
Capital goods industries :												
Nondefense	0.1	0.4	0.4	0.7	0.6	0.5	0.2	0.0	0.1	(X)	0.1	0.1
Defense	-0.1	0.6	0.6	11.2	3.1	3.3	0.2	0.1	0.2	(X)	0.2	0.1

(X) Not applicable. (NA) Not available.

Note : The five year and the twelve month revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the absolute values of the differences for the months specified. The advance to final percent change revisions for durable goods industries are shown in the advance report for the month.

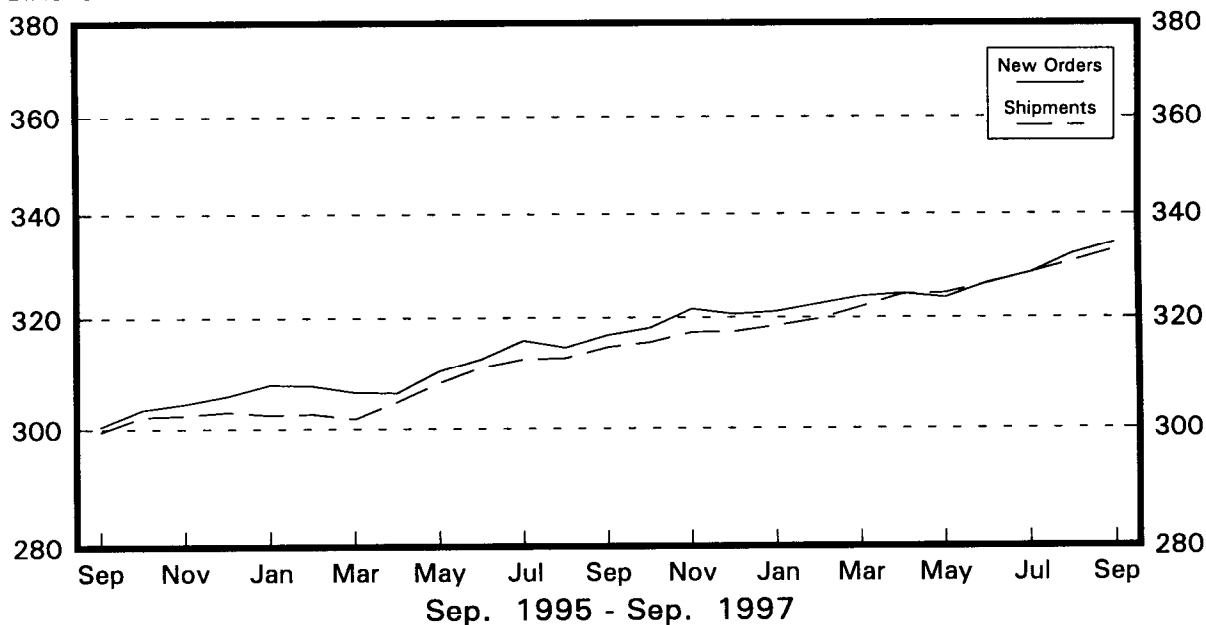
¹ The current month revisions are the difference between the advance percent change and the percent change as shown in this publication.

² Average for this month for the last five years.

Total Manufacturing

New Orders and Shipments
Three Month Moving Averages

Billions of Dollars

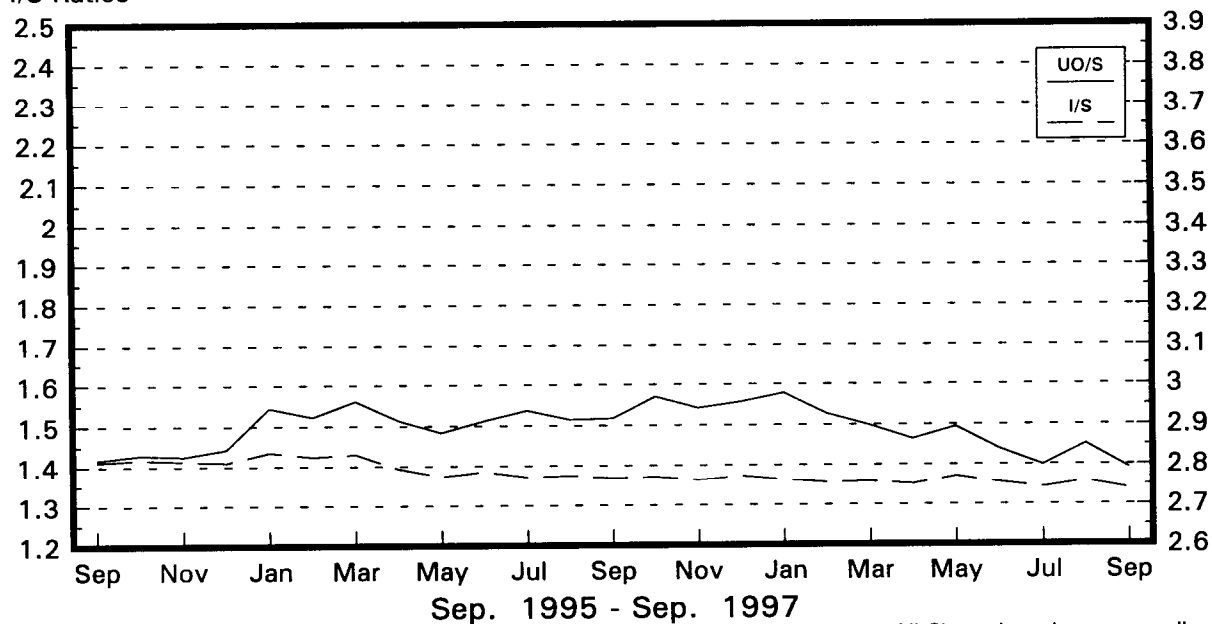


Total Manufacturing

Ratio of Unfilled Orders and
Inventories to Shipments

I/S Ratios

UO/S Ratios



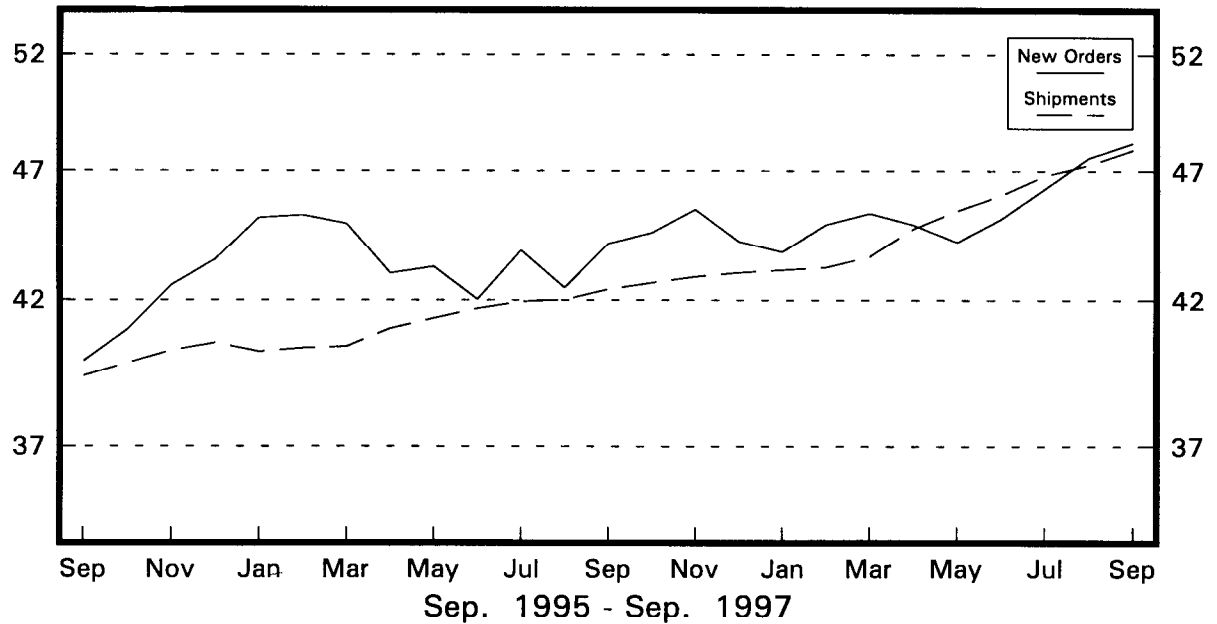
Note: All Charts based on seasonally adjusted current dollars.

Nondefense Capital Goods

11

New Orders and Shipments
Three Month Moving Averages

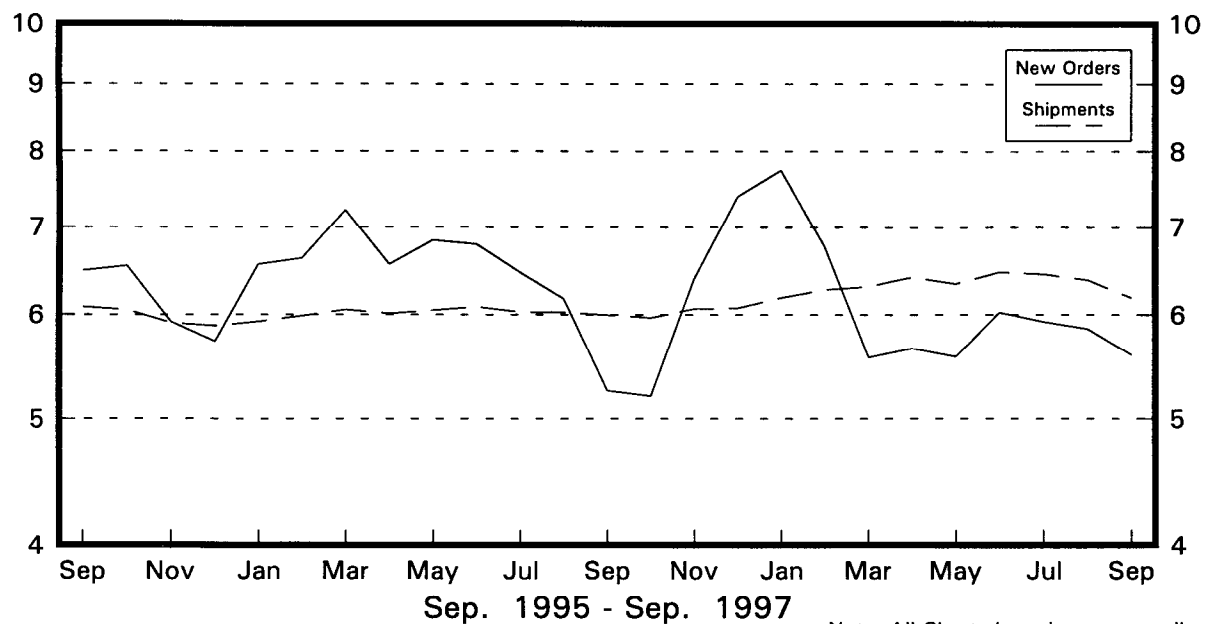
Billions of Dollars



Defense Capital Goods

New Orders and Shipments
Three Month Moving Averages

Billions of Dollars



Note: All Charts based on seasonally adjusted current dollars.